**Countess of Chester Hospital** 

NHS Foundation Trust

The Countess of Chester Health Park

Liverpool Road

Chester

CH2 1UL

Study Description: **US Doppler carotid artery Both** Study Date: **21/04/2023**

**Indication:**

transient speech disturbance and left facial droop ? stroke ? carotid stenosis

**Report:**

**CAROTID DUPLEX SCAN**

\* Irregular heart rate noted.

**RIGHT**

Subclavian artery: Patent proximally with good tri/biphasic waveforms, PSV 34cm/s.

Common Carotid Artery (CCA): Patent. Intima thickening forming a <30% reduction in diameter.

PSV 39cm/s EDV 11cm/s

Bifurcation: Patent. Minimal smooth mixed plaques, forming a <30% reduction in diameter.

Internal Carotid Artery (ICA): Patent. Smooth mixed plaques, forming a <30% reduction in diameter identified in the proximal ICA. Unable to visualize the distal ICA due high bifurcation, however waveforms in the mid ICA are low resistance suggesting distal patency.

PSV 25cm/s EDV 10cm/s

External Carotid Artery (ECA): Patent. No evidence of any plaque morphology

PSV 38cm/s

Vertebral Artery Flow (VA): Patent where seen, with open and orthograde flow.

PSV 29cm/s

**LEFT**

Subclavian artery: Patent proximally with good triphasic waveforms, PSV 45cm/s.

Common Carotid Artery (CCA): Patent. Intima thickening forming a <30% reduction in diameter.

PSV 45cm/s EDV 15cm/s

Bifurcation: Patent. Smooth mixed plaques, forming a <30% reduction in diameter.

Internal Carotid Artery (ICA): Patent. Smooth mixed plaques, forming a <30% reduction in diameter identified in the proximal ICA. Unable to visualize the distal ICA due high bifurcation, however waveforms in the mid ICA are low resistance suggesting distal patency.

PSV 28cm/s EDV 9cm/s

External Carotid Artery (ECA): Patent. No evidence of any plaque morphology

PSV 32cm/s

Vertebral Artery Flow (VA): Patent where seen, with open and orthograde flow.

PSV 32cm/s

**Conclusion**

**No evidence of significant carotid disease bilaterally.**

**Antegrade flow in the right and left vertebral arteries.**

**Irregular heart rate noted, and low velocities noted in all assessed vessels ? Low cardiac output.**

**Priority:** **++ Significant or Unexpected Finding ++**

**Reported by:**

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Clinical Vascular Scientist

Countess Of Chester Nhs Trust

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